

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 09:08:29 ON 23 AUG 2005

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,  
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 09:08:47 ON 23 AUG 2005  
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s d(w) (amino acid or aspartate) (w)oxidase# or dao or ddo or daao

FILE 'MEDLINE'

574106 D

594975 AMINO

1348178 ACID

445739 AMINO ACID

(AMINO(W)ACID)

58122 ASPARTATE

69284 OXIDASE#

1179 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE#

508 DAO

27 DDO

63 DAAO

L1 1626 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE# OR DAO OR DDO OR DAAO

FILE 'SCISEARCH'

691678 D

372599 AMINO

1072882 ACID

197876 AMINO ACID

(AMINO(W)ACID)

39801 ASPARTATE

68192 OXIDASE#

728 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE#

638 DAO

272 DDO

72 DAAO

L2 1583 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE# OR DAO OR DDO OR DAAO

FILE 'LIFESCI'

167567 D

162757 "AMINO"

289053 "ACID"

112488 AMINO ACID

("AMINO" (W) "ACID")

14961 ASPARTATE

17538 OXIDASE#

265 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE#

135 DAO

6 DDO

38 DAAO

L3 370 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE# OR DAO OR DDO OR DAAO

FILE 'BIOTECHDS'

43681 D

62386 AMINO

128658 ACID

44425 AMINO ACID

(AMINO(W)ACID)

1171 ASPARTATE  
6681 OXIDASE#  
237 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE#  
38 DAO  
6 DDO  
59 DAAO  
L4 247 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE# OR DAO OR DDO OR DAAO

FILE 'BIOSIS'

665994 D  
507849 AMINO  
1206528 ACID  
295021 AMINO ACID  
(AMINO(W)ACID)  
67956 ASPARTATE  
86544 OXIDASE#  
1193 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE#  
603 DAO  
39 DDO  
88 DAAO  
L5 1744 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE# OR DAO OR DDO OR DAAO

FILE 'EMBASE'

492069 D  
406917 "AMINO"  
1321236 "ACID"  
275734 AMINO ACID  
( "AMINO" (W) "ACID" )  
46460 ASPARTATE  
61543 OXIDASE#  
654 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE#  
443 DAO  
16 DDO  
67 DAAO  
L6 1046 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE# OR DAO OR DDO OR DAAO

FILE 'HCAPLUS'

2233694 D  
1035955 AMINO  
4020904 ACID  
512743 AMINO ACID  
(AMINO(W)ACID)  
56947 ASPARTATE  
115998 OXIDASE#  
2455 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE#  
840 DAO  
290 DDO  
108 DAAO  
L7 3450 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE# OR DAO OR DDO OR DAAO

FILE 'NTIS'

85225 D  
6933 AMINO  
43720 ACID  
2447 AMINO ACID  
(AMINO(W)ACID)  
269 ASPARTATE  
738 OXIDASE#  
3 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE#  
70 DAO  
10 DDO  
2 DAAO  
L8 85 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE# OR DAO OR DDO OR DAAO

FILE 'ESBIOBASE'

191369 D  
 169874 AMINO  
 319569 ACID  
 94895 AMINO ACID  
           (AMINO(W)ACID)  
 19417 ASPARTATE  
 20578 OXIDASE#  
       271 D(W) (AMINO ACID OR ASPARTATE) (W)OXIDASE#  
       158 DAO  
       7 DDO  
       53 DAAO  
 L9      400 D(W) (AMINO ACID OR ASPARTATE) (W)OXIDASE# OR DAO OR DDO OR DAAO

FILE 'BIOTECHNO'

124470 D  
 204625 AMINO  
 349810 ACID  
 154660 AMINO ACID  
           (AMINO(W)ACID)  
       8066 ASPARTATE  
       16788 OXIDASE#  
       283 D(W) (AMINO ACID OR ASPARTATE) (W)OXIDASE#  
       103 DAO  
       5 DDO  
       40 DAAO  
 L10     345 D(W) (AMINO ACID OR ASPARTATE) (W)OXIDASE# OR DAO OR DDO OR DAAO

FILE 'WPIDS'

558813 D  
 235316 AMINO  
 908858 ACID  
 64982 AMINO ACID  
           (AMINO(W)ACID)  
       2486 ASPARTATE  
       6924 OXIDASE#  
       112 D(W) (AMINO ACID OR ASPARTATE) (W)OXIDASE#  
       77 DAO  
       20 DDO  
       10 DAAO  
 L11     187 D(W) (AMINO ACID OR ASPARTATE) (W)OXIDASE# OR DAO OR DDO OR DAAO

TOTAL FOR ALL FILES

L12     11083 D(W) (AMINO ACID OR ASPARTATE) (W) OXIDASE# OR DAO OR DDO OR DAAO

=> s l12 and (schizophrenia or depression or bipolar)

FILE 'MEDLINE'

67441 SCHIZOPHRENIA  
 160930 DEPRESSION  
 32074 BIPOLAR  
 L13     18 L1 AND (SCHIZOPHRENIA OR DEPRESSION OR BIPOLAR)

FILE 'SCISEARCH'

47982 SCHIZOPHRENIA  
 104172 DEPRESSION  
 35806 BIPOLAR  
 L14     33 L2 AND (SCHIZOPHRENIA OR DEPRESSION OR BIPOLAR)

FILE 'LIFESCI'

2789 SCHIZOPHRENIA  
 13116 DEPRESSION  
 3426 BIPOLAR  
 L15     2 L3 AND (SCHIZOPHRENIA OR DEPRESSION OR BIPOLAR)

FILE 'BIOTECHDS'  
     995 SCHIZOPHRENIA  
     970 DEPRESSION  
     350 BIPOLAR  
 L16       6 L4 AND (SCHIZOPHRENIA OR DEPRESSION OR BIPOLAR)

FILE 'BIOSIS'  
     40982 SCHIZOPHRENIA  
     114950 DEPRESSION  
     20401 BIPOLAR  
 L17       31 L5 AND (SCHIZOPHRENIA OR DEPRESSION OR BIPOLAR)

FILE 'EMBASE'  
     56205 SCHIZOPHRENIA  
     169783 DEPRESSION  
     22089 BIPOLAR  
 L18       16 L6 AND (SCHIZOPHRENIA OR DEPRESSION OR BIPOLAR)

FILE 'HCAPLUS'  
     13642 SCHIZOPHRENIA  
     73873 DEPRESSION  
     33407 BIPOLAR  
 L19       43 L7 AND (SCHIZOPHRENIA OR DEPRESSION OR BIPOLAR)

FILE 'NTIS'  
     181 SCHIZOPHRENIA  
     3014 DEPRESSION  
     2339 BIPOLAR  
 L20       1 L8 AND (SCHIZOPHRENIA OR DEPRESSION OR BIPOLAR)

FILE 'ESBIOBASE'  
     10018 SCHIZOPHRENIA  
     23761 DEPRESSION  
     5659 BIPOLAR  
 L21       9 L9 AND (SCHIZOPHRENIA OR DEPRESSION OR BIPOLAR)

FILE 'BIOTECHNO'  
     2079 SCHIZOPHRENIA  
     5916 DEPRESSION  
     1671 BIPOLAR  
 L22       6 L10 AND (SCHIZOPHRENIA OR DEPRESSION OR BIPOLAR)

FILE 'WPIDS'  
     6333 SCHIZOPHRENIA  
     31449 DEPRESSION  
     33283 BIPOLAR  
 L23       7 L11 AND (SCHIZOPHRENIA OR DEPRESSION OR BIPOLAR)

TOTAL FOR ALL FILES  
 L24       172 L12 AND (SCHIZOPHRENIA OR DEPRESSION OR BIPOLAR)

=> s l24 not 2002-2005/py  
 FILE 'MEDLINE'  
     2078897 2002-2005/PY  
 L25       5 L13 NOT 2002-2005/PY

FILE 'SCISEARCH'  
     3872304 2002-2005/PY  
             (20020000-20059999/PY)  
 L26       7 L14 NOT 2002-2005/PY

FILE 'LIFESCI'  
     353601 2002-2005/PY

L27 0 L15 NOT 2002-2005/PY

FILE 'BIOTECHDS'

89618 2002-2005/PY

L28 0 L16 NOT 2002-2005/PY

FILE 'BIOSIS'

1752605 2002-2005/PY

L29 3 L17 NOT 2002-2005/PY

FILE 'EMBASE'

1764862 2002-2005/PY

L30 3 L18 NOT 2002-2005/PY

FILE 'HCAPLUS'

3950605 2002-2005/PY

L31 13 L19 NOT 2002-2005/PY

FILE 'NTIS'

49335 2002-2005/PY

L32 1 L20 NOT 2002-2005/PY

FILE 'ESBIOBASE'

1073295 2002-2005/PY

L33 0 L21 NOT 2002-2005/PY

FILE 'BIOTECHNO'

244553 2002-2005/PY

L34 1 L22 NOT 2002-2005/PY

FILE 'WPIDS'

3645178 2002-2005/PY

L35 0 L23 NOT 2002-2005/PY

TOTAL FOR ALL FILES

L36 33 L24 NOT 2002-2005/PY

=> s l12 and d(w)serine

FILE 'MEDLINE'

574106 D

84906 SERINE

730 D(W) SERINE

L37 41 L1 AND D(W) SERINE

FILE 'SCISEARCH'

691678 D

49577 SERINE

958 D(W) SERINE

L38 78 L2 AND D(W) SERINE

FILE 'LIFESCI'

167567 D

20692 SERINE

293 D(W) SERINE

L39 17 L3 AND D(W) SERINE

FILE 'BIOTECHDS'

43681 D

4454 SERINE

86 D(W) SERINE

L40 10 L4 AND D(W) SERINE

FILE 'BIOSIS'

665994 D

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        65169 SERINE
        1244 D(W) SERINE
L41      61 L5 AND D(W) SERINE

FILE 'EMBASE'
        492069 D
        54251 SERINE
        686 D(W) SERINE
L42      41 L6 AND D(W) SERINE

FILE 'HCAPLUS'
        2233694 D
        102365 SERINE
        2393 D(W) SERINE
L43      95 L7 AND D(W) SERINE

FILE 'NTIS'
        85225 D
        517 SERINE
        4 D(W) SERINE
L44      0 L8 AND D(W) SERINE

FILE 'ESBIOBASE'
        191369 D
        25569 SERINE
        321 D(W) SERINE
L45      41 L9 AND D(W) SERINE

FILE 'BIOTECHNO'
        124470 D
        28989 SERINE
        165 D(W) SERINE
L46      13 L10 AND D(W) SERINE

FILE 'WPIDS'
        558813 D
        7771 SERINE
        179 D(W) SERINE
L47      8 L11 AND D(W) SERINE

TOTAL FOR ALL FILES
L48      405 L12 AND D(W) SERINE

=> s l48 not 2002-2005/py
FILE 'MEDLINE'
        2078897 2002-2005/PY
L49      23 L37 NOT 2002-2005/PY

FILE 'SCISEARCH'
        3872304 2002-2005/PY
                (20020000-20059999/PY)
L50      45 L38 NOT 2002-2005/PY

FILE 'LIFESCI'
        353601 2002-2005/PY
L51      9 L39 NOT 2002-2005/PY

FILE 'BIOTECHDS'
        89618 2002-2005/PY
L52      3 L40 NOT 2002-2005/PY

FILE 'BIOSIS'
        1752605 2002-2005/PY
L53      34 L41 NOT 2002-2005/PY

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FILE 'EMBASE'  
1764862 2002-2005/PY  
L54 24 L42 NOT 2002-2005/PY

FILE 'HCAPLUS'  
3950605 2002-2005/PY  
L55 62 L43 NOT 2002-2005/PY

FILE 'NTIS'  
49335 2002-2005/PY  
L56 0 L44 NOT 2002-2005/PY

FILE 'ESBIOBASE'  
1073295 2002-2005/PY  
L57 18 L45 NOT 2002-2005/PY

FILE 'BIOTECHNO'  
244553 2002-2005/PY  
L58 9 L46 NOT 2002-2005/PY

FILE 'WPIDS'  
3645178 2002-2005/PY  
L59 1 L47 NOT 2002-2005/PY

TOTAL FOR ALL FILES  
L60 228 L48 NOT 2002-2005/PY

=> s l12(10a)inhibit?

FILE 'MEDLINE'  
1195975 INHIBIT?  
L61 124 L1 (10A)INHIBIT?

FILE 'SCISEARCH'  
988731 INHIBIT?  
L62 64 L2 (10A)INHIBIT?

FILE 'LIFESCI'  
325187 INHIBIT?  
L63 31 L3 (10A)INHIBIT?

FILE 'BIOTECHDS'  
54523 INHIBIT?  
L64 18 L4 (10A)INHIBIT?

FILE 'BIOSIS'  
1272322 INHIBIT?  
L65 128 L5 (10A)INHIBIT?

FILE 'EMBASE'  
1082256 INHIBIT?  
L66 88 L6 (10A)INHIBIT?

FILE 'HCAPLUS'  
1765093 INHIBIT?  
L67 360 L7 (10A)INHIBIT?

FILE 'NTIS'  
20783 INHIBIT?  
L68 2 L8 (10A)INHIBIT?

FILE 'ESBIOBASE'  
429802 INHIBIT?  
L69 33 L9 (10A)INHIBIT?

FILE 'BIOTECHNO'  
301415 INHIBIT?  
L70 24 L10(10A)INHIBIT?

FILE 'WPIDS'  
237369 INHIBIT?  
L71 13 L11(10A)INHIBIT?

TOTAL FOR ALL FILES  
L72 885 L12(10A) INHIBIT?

=> s l72 and (ndma or glutamat?)  
FILE 'MEDLINE'  
610 NDMA  
73360 GLUTAMAT?  
L73 6 L61 AND (NDMA OR GLUTAMAT?)

FILE 'SCISEARCH'  
433 NDMA  
64806 GLUTAMAT?  
L74 7 L62 AND (NDMA OR GLUTAMAT?)

FILE 'LIFESCI'  
265 NDMA  
25454 GLUTAMAT?  
L75 3 L63 AND (NDMA OR GLUTAMAT?)

FILE 'BIOTECHDS'  
5 NDMA  
2170 GLUTAMAT?  
L76 1 L64 AND (NDMA OR GLUTAMAT?)

FILE 'BIOSIS'  
758 NDMA  
85255 GLUTAMAT?  
L77 10 L65 AND (NDMA OR GLUTAMAT?)

FILE 'EMBASE'  
491 NDMA  
58379 GLUTAMAT?  
L78 12 L66 AND (NDMA OR GLUTAMAT?)

FILE 'HCAPLUS'  
936 NDMA  
102252 GLUTAMAT?  
L79 18 L67 AND (NDMA OR GLUTAMAT?)

FILE 'NTIS'  
55 NDMA  
534 GLUTAMAT?  
L80 0 L68 AND (NDMA OR GLUTAMAT?)

FILE 'ESBIOBASE'  
179 NDMA  
28715 GLUTAMAT?  
L81 4 L69 AND (NDMA OR GLUTAMAT?)

FILE 'BIOTECHNO'  
127 NDMA  
12523 GLUTAMAT?  
L82 5 L70 AND (NDMA OR GLUTAMAT?)

FILE 'WPIDS'



13 NDMA  
4976 GLUTAMAT?  
L83 1 L71 AND (NDMA OR GLUTAMAT?)

TOTAL FOR ALL FILES

L84 67 L72 AND (NDMA OR GLUTAMAT?)

=> s l84 not 2002-2005/py

FILE 'MEDLINE'

2078897 2002-2005/PY

L85 4 L73 NOT 2002-2005/PY

FILE 'SCISEARCH'

3872304 2002-2005/PY

(20020000-20059999/PY)

L86 4 L74 NOT 2002-2005/PY

FILE 'LIFESCI'

353601 2002-2005/PY

L87 2 L75 NOT 2002-2005/PY

FILE 'BIOTECHDS'

89618 2002-2005/PY

L88 1 L76 NOT 2002-2005/PY

FILE 'BIOSIS'

1752605 2002-2005/PY

L89 7 L77 NOT 2002-2005/PY

FILE 'EMBASE'

1764862 2002-2005/PY

L90 10 L78 NOT 2002-2005/PY

FILE 'HCAPLUS'

3950605 2002-2005/PY

L91 14 L79 NOT 2002-2005/PY

FILE 'NTIS'

49335 2002-2005/PY

L92 0 L80 NOT 2002-2005/PY

FILE 'ESBIOBASE'

1073295 2002-2005/PY

L93 2 L81 NOT 2002-2005/PY

FILE 'BIOTECHNO'

244553 2002-2005/PY

L94 5 L82 NOT 2002-2005/PY

FILE 'WPIDS'

3645178 2002-2005/PY

L95 0 L83 NOT 2002-2005/PY

TOTAL FOR ALL FILES

L96 49 L84 NOT 2002-2005/PY

=> fil .becpat

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

35.10

35.31

FILES 'BIOTECHDS, HCAPLUS, WPIDS' ENTERED AT 09:17:35 ON 23 AUG 2005

ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

# 3 FILES IN THE FILE LIST

=> s (124 or 148 or 184) and wo/pc and pry<=2001 range=2002,  
FILE 'BIOTECHDS'

27380 WO/PC  
30691 PRY<=2001  
(PRY<=2001)

L97 2 (L16 OR L40 OR L76) AND WO/PC AND PRY<=2001

FILE 'HCAPLUS'

211721 WO/PC  
602137 PRY<=2001

L98 5 (L19 OR L43 OR L79) AND WO/PC AND PRY<=2001

FILE 'WPIDS'

418053 WO/PC  
1543545 PRY<=2001  
(PRY<=2001)

L99 3 (L23 OR L47 OR L83) AND WO/PC AND PRY<=2001

TOTAL FOR ALL FILES

L100 10 (L24 OR L48 OR L84) AND WO/PC AND PRY<=2001

=> dup rem l100

PROCESSING COMPLETED FOR L100

L101 5 DUP REM L100 (5 DUPLICATES REMOVED)

=> d tot

L101 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

TI RNA interference-mediated inhibition of G72 and **D-amino acid oxidase** gene expression using short interfering nucleic acids

SO U.S. Pat. Appl. Publ., 127 pp., Cont.-in-part of Appl. No. PCT/US04/016390.

CODEN: USXXCO

IN McSwiggen, James; Beigelman, Leonid; Haeberli, Peter

AN 2005:547035 HCAPLUS

DN 143:53567

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005136436	A1	20050623	US 2004-923640	20040819 <--
AU 9851819	A1	19980611	AU 1998-51819	19980112 <--
AU 729657	B2	20010208		
AU 9939188	A1	19990916	AU 1999-39188	19990713 <--
AU 769175	B2	20040115	AU 2000-56616	20000911 <--
US 2003104985	A1	20030605	US 2002-151116	20020517 <--
WO 2002094185	A2	20021128	WO 2002-US15876	20020520 <--
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US 2003130186	A1	20030710	US 2002-201394	20020722 <--
WO 2003070743	A1	20030828	WO 2003-US4397	20030213 <--
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 WO 2003070918 A2 20030828 WO 2003-US5346 20030220 <--  
 WO 2003070918 A3 20040708  
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 WO 2003074654 A2 20030912 WO 2003-US5028 20030220 <--  
 WO 2003074654 A3 20040205  
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 US 2004110296 A1 20040610 US 2003-427160 20030430 <--  
 US 2004192626 A1 20040930 US 2003-444853 20030523  
 US 2005020525 A1 20050127 US 2004-757803 20040114  
 US 2004249178 A1 20041209 US 2004-780447 20040213 <--  
 US 2005032733 A1 20050210 US 2004-826966 20040416 <--  
 WO 2005041859 A2 20050512 WO 2004-US13456 20040430 <--  
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 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,  
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
 SN, TD, TG  
 WO 2005019453 A2 20050303 WO 2004-US16390 20040524 <--  
 WO 2005019453 A3 20050623  
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,  
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,  
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,  
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
 SN, TD, TG

nucleotide at a biallelic marker of the **D-amino acid oxidase** gene of the polynucleotide in a sample;

**D-amino-acid-oxidase**

genotyping for disease diagnosis

AU COHEN D; CHUMAKOV I  
AN 2003-19696 BIOTECHDS  
PI WO 2003050303 19 Jun 2003

L101 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2

TI **D-Amino acid oxidase** inhibitors  
for learning and memory

SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2

IN Heefner, Donald L.; Currie, Mark G.; Rossi, Richard Filip, Jr.; Zepp, Charles M.

AN 2003:376633 HCAPLUS

DN 138:362716

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003039540	A2	20030515	WO 2002-US36051	20021112 <--
WO 2003039540	A3	20031204		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003162825	A1	20030828	US 2002-292368	20021112 <--

L101 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

TI RNA interference-mediated inhibition of G72 and **D-amino acid oxidase** gene expression using short interfering nucleic acids

SO PCT Int. Appl., 139 pp.

CODEN: PIXXD2

IN McSwiggen, James; Beigelman, Leonid; Haeberli, Peter

AN 2003:678822 HCAPLUS

DN 139:191411

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003070743	A1	20030828	WO 2003-US4397	20030213 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 9851819	A1	19980611	AU 1998-51819	19980112 <--
AU 729657	B2	20010208		
AU 9939188	A1	19990916	AU 1999-39188	19990713 <--
AU 769175	B2	20040115	AU 2000-56616	20000911 <--
EP 1495041	A1	20050112	EP 2003-742736	20030213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005136436	A1	20050623	US 2004-923640	20040819 <--

L101 ANSWER 5 OF 5 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN  
TI Novel **D-amino acid oxidase**  
polypeptide useful for identifying candidate molecule for the treatment  
of a central nervous system disorder and for the treatment of  
**schizophrenia, depression or bipolar**  
disorder;  
recombinant protein production and sense, antisense and triple  
helix-forming sequence for use in disease gene therapy  
AU COHEN D; CHUMAKOV I  
AN 2003-07415 BIOTECHDS  
PI WO 2002066672 29 Aug 2002

=> log y.

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

14.13

49.44

STN INTERNATIONAL LOGOFF AT 09:19:58 ON 23 AUG 2005

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 08:13:17 ON 23 AUG 2005

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

0.21	0.21
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FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODASE, BIOTECHNO, WPIDS' ENTERED AT 08:13:31 ON 23 AUG 2005  
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s cystathionine ketimine or 87458-28-4

FILE 'MEDLINE'

1745 CYSTATHIONINE  
130 KETIMINE  
19 CYSTATHIONINE KETIMINE  
(CYSTATHIONINE(W) KETIMINE)  
0 87458-28-4

L1 19 CYSTATHIONINE KETIMINE OR 87458-28-4

FILE 'SCISEARCH'

1376 CYSTATHIONINE  
317 KETIMINE  
16 CYSTATHIONINE KETIMINE  
(CYSTATHIONINE(W) KETIMINE)  
0 87458-28-4

L2 16 CYSTATHIONINE KETIMINE OR 87458-28-4

FILE 'LIFESCI'

312 "CYSTATHIONINE"  
42 "KETIMINE"  
4 CYSTATHIONINE KETIMINE  
("CYSTATHIONINE" (W) "KETIMINE")  
0 87458-28-4

L3 4 CYSTATHIONINE KETIMINE OR 87458-28-4

FILE 'BIOTECHDS'

89 CYSTATHIONINE  
4 KETIMINE  
0 CYSTATHIONINE KETIMINE  
(CYSTATHIONINE(W) KETIMINE)  
0 87458-28-4

L4 0 CYSTATHIONINE KETIMINE OR 87458-28-4

FILE 'BIOSIS'

1839 CYSTATHIONINE  
175 KETIMINE  
21 CYSTATHIONINE KETIMINE  
(CYSTATHIONINE(W) KETIMINE)  
11 87458-28-4

L5 21 CYSTATHIONINE KETIMINE OR 87458-28-4

FILE 'EMBASE'

1575 "CYSTATHIONINE"  
157 "KETIMINE"  
16 CYSTATHIONINE KETIMINE  
("CYSTATHIONINE" (W) "KETIMINE")  
0 87458-28-4

L6 16 CYSTATHIONINE KETIMINE OR 87458-28-4

FILE 'HCAPLUS'  
2395 CYSTATHIONINE  
2146 KETIMINE  
26 CYSTATHIONINE KETIMINE  
(CYSTATHIONINE(W) KETIMINE)  
23 87458-28-4  
L7 28 CYSTATHIONINE KETIMINE OR 87458-28-4

FILE 'NTIS'  
1 CYSTATHIONINE  
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0 CYSTATHIONINE KETIMINE  
(CYSTATHIONINE(W) KETIMINE)  
0 87458-28-4  
L8 0 CYSTATHIONINE KETIMINE OR 87458-28-4

FILE 'ESBIOBASE'  
592 CYSTATHIONINE  
60 KETIMINE  
8 CYSTATHIONINE KETIMINE  
(CYSTATHIONINE(W) KETIMINE)  
0 87458  
78402 28  
623703 4  
0 87458-28-4  
(87458(W) 28(W) 4)  
L9 8 CYSTATHIONINE KETIMINE OR 87458-28-4

FILE 'BIOTECHNO'  
462 CYSTATHIONINE  
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(CYSTATHIONINE(W) KETIMINE)  
0 87458-28-4  
L10 7 CYSTATHIONINE KETIMINE OR 87458-28-4

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92 CYSTATHIONINE  
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(CYSTATHIONINE(W) KETIMINE)  
2 87458  
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3887833 4  
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PROCESSING COMPLETED FOR L12  
L13 32 DUP REM L12 (87 DUPLICATES REMOVED)

=> d tot

L13 ANSWER 1 OF 32 MEDLINE on STN DUPLICATE 1  
TI Effect of sulfur amino acids on stimulus-induced superoxide generation and translocation of p47phox and p67phox to cell membrane in human neutrophils and the scavenging of free radical.  
SO Clinica chimica acta; international journal of clinical chemistry, (2005 Mar) 353 (1-2) 109-16.  
Journal code: 1302422. ISSN: 0009-8981.

AU Kitaoka Noriko; Liu Gang; Masuoka Noriyoshi; Yamashita Koichi; Manabe  
Masanobu; Kodama Hiroyuki  
AN 2005069032 MEDLINE

L13 ANSWER 2 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Antagonists of D-amino acid oxidase and D-aspartate oxidase for treatment  
of central nervous system disorders  
SO U.S. Pat. Appl. Publ., 138 pp., Cont.-in-part of U.S. Ser. No. 51,681.  
CODEN: USXXCO  
IN Cohen, Daniel; Chumakov, Llya  
AN 2003:696521 HCAPLUS  
DN 139:224389

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003166554	A1	20030904	US 2002-211160	20020801
	US 2003185754	A1	20031002	US 2002-51681	20020116

L13 ANSWER 3 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Treatment of CNS disorders using D-amino acid oxidase and D-aspartate  
oxidase antagonists  
SO PCT Int. Appl., 194 pp.  
CODEN: PIXXD2  
IN Cohen, Daniel; Chumakov, Ilya  
AN 2002:658287 HCAPLUS  
DN 137:195529

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002066672	A2	20020829	WO 2002-IB1262	20020115
	WO 2002066672	A3	20040226		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2433866	AA	20020829	CA 2002-2433866	20020115
	EP 1412515	A2	20040428	EP 2002-717019	20020115
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	JP 2004537275	T2	20041216	JP 2002-566376	20020115

L13 ANSWER 4 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Cystathionine metabolism in patients with cystathioninuria and effect of  
priming of cystathionine metabolites on superoxide generation in human  
neutrophils  
SO Recent Research Developments in Biophysics & Biochemistry (2001), 1,  
189-199  
CODEN: RRDBDN  
AU Kodama, Hiroyuki; Zhang, Jianying; Sugahara, Kazunori; Sagara, Yasuhiro;  
Masuoka, Yoshinori  
AN 2002:623127 HCAPLUS  
DN 138:13150

L13 ANSWER 5 OF 32 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
TI Effect of sarsasapogenin and its derivatives on the stimulus coupled  
responses of human neutrophils  
SO CLINICA CHIMICA ACTA, (DEC 2001) Vol. 314, No. 1-2, pp. 107-112.  
ISSN: 0009-8981.  
AU Ma D S; Zhang J Y; Sugahara K; Sagara Y; Kodama H (Reprint)



AN 2002:16303 SCISEARCH

- L13 ANSWER 6 OF 32 MEDLINE on STN DUPLICATE 2  
TI Accumulation of cystathionine, **cystathionine ketimine**,  
and perhydro-1,4-thiazepine-3,5-dicarboxylic acid in whole brain and  
various regions of the brain of D, L-propargylglycine-treated rats.  
SO Metabolism: clinical and experimental, (2000 Aug) 49 (8) 1025-9.  
Journal code: 0375267. ISSN: 0026-0495.  
AU Yu S; Sugahara K; Nakayama K; Awata S; Kodama H  
AN 2000414616 MEDLINE
- L13 ANSWER 7 OF 32 MEDLINE on STN DUPLICATE 3  
TI Novel priming compounds of cystathionine metabolites on superoxide  
generation in human neutrophils.  
SO Biochemical and biophysical research communications, (2000 Mar 16) 269 (2)  
297-301.  
Journal code: 0372516. ISSN: 0006-291X.  
AU Kodama H; Zhang J; Sugahara K  
AN 2000175195 MEDLINE
- L13 ANSWER 8 OF 32 MEDLINE on STN DUPLICATE 4  
TI D-**cystathionine ketimine** and L-**cystathionine**  
**ketimine** enhance superoxide generation by human neutrophils in a  
different manner.  
SO Archives of biochemistry and biophysics, (1999 Mar 1) 363 (1) 55-9.  
Journal code: 0372430. ISSN: 0003-9861.  
AU Zhang J; Zhang M; Sugahara K; Sagara Y; Spirito A; Dupre; Kodama H  
AN 1999160374 MEDLINE
- L13 ANSWER 9 OF 32 MEDLINE on STN DUPLICATE 5  
TI Metabolism of cystathionine, N-monoacetylcystathionine,  
perhydro-1,4-thiazepine-3,5-dicarboxylic acid, and **cystathionine**  
**ketimine** in the liver and kidney of D,L-propargylglycine-treated  
rats.  
SO Metabolism: clinical and experimental, (1998 Oct) 47 (10) 1233-8.  
Journal code: 0375267. ISSN: 0026-0495.  
AU Zhang J; Zhang M; Ma D; Sugahara K; Kodama H  
AN 1998452887 MEDLINE
- L13 ANSWER 10 OF 32 MEDLINE on STN DUPLICATE 6  
TI Detection of **cystathionine ketimine** and lanthionine  
ketimine in human brain.  
SO Neurochemical research, (1997 Jul) 22 (7) 821-4.  
Journal code: 7613461. ISSN: 0364-3190.  
AU Fontana M; Brunori A; Costa M; Antonucci A  
AN 97376565 MEDLINE
- L13 ANSWER 11 OF 32 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
TI Lanthionine ketimine and S-(2-aminoethyl)-L-cysteine ketimine induce the  
tyrosyl phosphorylation of 45 kDa protein in parallel with its stimulation  
of superoxide generation in human neutrophils  
SO PHYSIOLOGICAL CHEMISTRY AND PHYSICS AND MEDICAL NMR, (1997) Vol. 29, No.  
2, pp. 199-211.  
ISSN: 0748-6642.  
AU Zhang J Y (Reprint); Sugahara K; Hashimoto K; Sagara Y; Fontana M; Dupre  
S; Kodama H  
AN 1998:507673 SCISEARCH
- L13 ANSWER 12 OF 32 MEDLINE on STN DUPLICATE 7  
TI Effect of cystathionine and cystathionine metabolites on the  
phosphorylation of tyrosine residues in human neutrophils.  
SO Biochemical and biophysical research communications, (1996 Jul 25) 224 (3)  
849-54.

Journal code: 0372516. ISSN: 0006-291X.

AU Zhang J; Sagara Y; Fontana M; Dupre S; Cavallini D; Kodama H  
AN 96311377 MEDLINE

L13 ANSWER 13 OF 32 MEDLINE on STN DUPLICATE 8  
TI Effect of **cystathionine ketimine** on the stimulus  
coupled responses of neutrophils and their modulation by various protein  
kinase inhibitors.  
SO Biochemical and biophysical research communications, (1996 Jan 5) 218 (1)  
371-6.

Journal code: 0372516. ISSN: 0006-291X.

AU Zhang J; Sugahara K; Sagara Y; Fontana M; Dupre S; Kodama H  
AN 96136330 MEDLINE

L13 ANSWER 14 OF 32 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
TI Solubilization of [S-35]lanthionine ketimine binding sites from bovine  
brain  
SO NEUROCHEMISTRY INTERNATIONAL, (FEB 1996) Vol. 28, No. 2, pp. 169-173.  
ISSN: 0197-0186.  
AU Fontana M (Reprint); Costa M; Dupre S  
AN 1996:31036 SCISEARCH

L13 ANSWER 15 OF 32 MEDLINE on STN DUPLICATE 9  
TI Identification of perhydro-1,4-thiazepine-3,5-dicarboxylic acid,  
cystathionine mono-oxo acids, cystathionine ketimines, cystathionine  
sulfoxide and N-acetylcystathionine sulfoxide in the urine sample of  
D,L-propargylglycine treated rats.  
SO Physiological chemistry and physics and medical NMR, (1995) 27 (3) 203-16.  
Journal code: 8502230. ISSN: 0748-6642.  
AU Machida Y; Zhang J; Hashimoto K; Wakiguchi H; Kurashige T; Masuoka N;  
Ubuka T; Kodama H  
AN 97022220 MEDLINE

L13 ANSWER 16 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Characterization of [35S]lanthionine ketimine specific binding to bovine  
brain membranes  
SO Biochemical and Biophysical Research Communications (1993), 195(2), 673-8  
CODEN: BBRC A9; ISSN: 0006-291X  
AU Dupre, S.; Fontana, M.; Costa, M.; Pecci, L.; Ricci, G.; Cavallini, D.  
AN 1993:664740 HCAPLUS  
DN 119:264740

L13 ANSWER 17 OF 32 MEDLINE on STN DUPLICATE 10  
TI Identification of new cystathionine mono-oxo acids, S-(3-oxo-3-carboxy-n-  
propyl) cysteine and S-(2-oxo-2-carboxyethyl) homocysteine, in the urine  
of a patient with cystathioninuria.  
SO Archives of biochemistry and biophysics, (1993 Sep) 305 (2) 385-91.  
Journal code: 0372430. ISSN: 0003-9861.  
AU Okada T; Takechi T; Wakiguchi H; Kurashige T; Sugahara K; Kodama H  
AN 93384291 MEDLINE

L13 ANSWER 18 OF 32 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN DUPLICATE 11  
TI REVERSIBLE CYCLIZATION OF S-(2-OXO-2-CARBOXYETHYL)-L-HOMOCYSTEINE TO  
**CYSTATHIONINE KETIMINE**  
SO AMINO ACIDS, (1993) Vol. 4, No. 1-2, pp. 133-140.  
ISSN: 0939-4451.  
AU SOLINAS S P (Reprint); PECCI L; MONTEFOSCHI G; FONTANA M; CAVALLINI D  
AN 1993:317983 SCISEARCH

L13 ANSWER 19 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN  
TI The reducing activity of S-aminoethylcysteine ketimine and similar  
sulfur-containing ketimines

SO Biochemical and Biophysical Research Communications (1992), 183(2), 481-6  
CODEN: BBRC9; ISSN: 0006-291X

AU Solinas, S. P.; Pecci, L.; Montefoschi, G.; Cavallini, D.  
AN 1992:190589 HCAPLUS  
DN 116:190589

L13 ANSWER 20 OF 32 MEDLINE on STN DUPLICATE 12  
TI Sulfur-containing cyclic ketimines and imino acids. A novel family of  
endogenous products in the search for a role.  
SO European journal of biochemistry / FEBS, (1991 Dec 5) 202 (2) 217-23.  
Ref: 62  
Journal code: 0107600. ISSN: 0014-2956.  
AU Cavallini D; Ricci G; Dupre S; Pecci L; Costa M; Matarese R M; Pensa B;  
Antonucci A; Solinas S P; Fontana M  
AN 92104137 MEDLINE

L13 ANSWER 21 OF 32 MEDLINE on STN DUPLICATE 13  
TI Detection of **cystathionine ketimine** in bovine  
cerebellum.  
SO Journal of neurochemistry, (1990 Nov) 55 (5) 1599-602.  
Journal code: 2985190R. ISSN: 0022-3042.  
AU Ricci G; Vesci L; Matarese R M; Antonucci A; Maggio A; Pecci L; Cavallini  
D  
AN 91011395 MEDLINE

L13 ANSWER 22 OF 32 MEDLINE on STN DUPLICATE 14  
TI 35S]Lanthionine ketimine binding to bovine brain membranes.  
SO Biochemical and biophysical research communications, (1990 Aug 31) 171 (1)  
480-6.  
Journal code: 0372516. ISSN: 0006-291X.  
AU Fontana M; Ricci G; Solinas S P; Antonucci A; Serao I; Dupre S; Cavallini  
D  
AN 90365749 MEDLINE

L13 ANSWER 23 OF 32 MEDLINE on STN DUPLICATE 15  
TI Influence of diet on **cystathionine ketimine** and  
lanthionine ketimine content in human urine.  
SO Italian journal of biochemistry, (1990 Mar-Apr) 39 (2) 100-5.  
Journal code: 0376564. ISSN: 0021-2938.  
AU Antonucci A; Pecci L; Fontana M; Cavallini D  
AN 90299613 MEDLINE

L13 ANSWER 24 OF 32 MEDLINE on STN DUPLICATE 16  
TI Detection of cystathionine and lanthionine ketimines in human urine.  
SO Biochemistry international, (1988 Nov) 17 (5) 877-83.  
Journal code: 8100311. ISSN: 0158-5231.  
AU Pecci L; Antonucci A; Nardini M; Cavallini D  
AN 89322315 MEDLINE

L13 ANSWER 25 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Purification and characterization of a ketimine-reducing enzyme  
SO European Journal of Biochemistry (1988), 173(3), 689-94  
CODEN: EJBCAI; ISSN: 0014-2956  
AU Nardini, Mirella; Ricci, Giorgio; Caccuri, Anna Maria; Solinas, Sandro  
Paolo; Vesci, Loredana; Cavallini, Dorianio  
AN 1988:434289 HCAPLUS  
DN 109:34289

L13 ANSWER 26 OF 32 MEDLINE on STN DUPLICATE 17  
TI Bovine brain ketimine reductase.  
SO Biochimica et biophysica acta, (1988 Nov 23) 957 (2) 286-92.  
Journal code: 0217513. ISSN: 0006-3002.  
AU Nardini M; Ricci G; Vesci L; Pecci L; Cavallini D  
AN 89051041 MEDLINE

- L13 ANSWER 27 OF 32 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN DUPLICATE 18  
TI PROPERTIES OF THE PHENYLTHIOHYDANTOIN DERIVATIVES OF SOME  
SULFUR-CONTAINING CYCLIC AMINO ACIDS.  
SO Physiological Chemistry and Physics and Medical NMR, (1988) Vol. 20, No.  
3, pp. 199-204.  
CODEN: PCPNER. ISSN: 0748-6642.  
AU PECCI L [Reprint author]; COSTA M; PINNEN F; ANTONUCCI A; CAVALLINI D  
AN 1989:199153 BIOSIS
- L13 ANSWER 28 OF 32 MEDLINE on STN DUPLICATE 19  
TI The conversion of L-cystathionine into the cyclic ketimine form by heated  
rat liver extracts containing cystathionase and transaminase activities.  
SO Biochemistry international, (1985 Apr) 10 (4) 641-6.  
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AU Cavallini D; Costa M; Pensa B; Coccia R  
AN 85279559 MEDLINE
- L13 ANSWER 29 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Ketimine formation by interacting L-cystathionine with glyoxylic acid  
SO IRCS Medical Science (1984), 12(6), 468-9  
CODEN: IMSCE2; ISSN: 0268-8220  
AU Costa, Mara; Pensa, Bernardo; Cavallini, Dorianio  
AN 1984:565730 HCAPLUS  
DN 101:165730
- L13 ANSWER 30 OF 32 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
TI GAS CHROMATOGRAPHIC DETERMINATION OF THIAZINE AND THIAZEPINE DERIVATIVES  
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SO Journal of Chromatography, (1984) Vol. 294, pp. 413-418.  
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- L13 ANSWER 32 OF 32 MEDLINE on STN DUPLICATE 21  
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cystine: preparation and properties.  
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AN 83273959 MEDLINE

=> d ab 1,5,11,14,17,20,25,30,32

- L13 ANSWER 1 OF 32 MEDLINE on STN DUPLICATE 1  
AB BACKGROUND: Various cystathionine metabolites are in the urine of the  
patients with cystathioninuria. Among these metabolites,  
**cystathionine ketimine** significantly enhanced  
N-formyl-methionyl-leucyl-phenylalanine (fMLP)-induced superoxide  
generation in parallel with tyrosyl phosphorylation of 45 kDa protein in  
human neutrophils. METHODS: We investigated the effect of various sulfur  
amino acids on fMLP-, phorbol-12-myristate-13-acetate (PMA)- and  
arachidonic acid (AA)-induced superoxide generation in human neutrophils.  
In addition, the effects of these sulfur amino acids on the membrane

translocation of cytosolic compounds p47(phox) and p67(phox) and on the scavenging of superoxide anions were investigated. RESULTS: When the cells were preincubated with various sulfur amino acids, fMLP-induced superoxide generation was enhanced by D,L-homocysteine and D,L-homocysteine-thiolactone but was inhibited by other sulfur amino acids in a concentration-dependent manner. The AA-induced superoxide was enhanced by L-cysteine, N-acetyl-L-cysteine and D,L-homocysteine. The strength of enhancing effect was: L-cysteine>>N-acetyl-L-cysteine>D,L-homocysteine. On the other hand, the superoxide generation was weakly inhibited by L-cystathionine. The superoxide generation induced by PMA was weakly inhibited by L-cysteine, N-acetyl-L-cysteine and L-cystathionine. Homocysteine and D,L-homocysteine-thiolactone had no effect. In addition, D,L-homocysteine also enhanced translocation to the cell membrane of cytosolic compounds p47(phox) and p67(phox). Conversely, L-cystathionine and N-acetyl-L-cysteine inhibited the translocation to membrane of p47(phox) and p67(phox) in a concentration-dependent manner. N-acetyl-L-cysteine and L-cysteine revealed scavenging activity against 2,2-diphenyl-1-picrylhydrazyl (DPPH) radicals. The sulfur amino acids tested also indicated radical scavenging activity on superoxide anion generated by phenazine methoxysulfate (PMS)-NADH system. CONCLUSION: D,L-homocysteine and D,L-homocysteine-thiolactone enhanced fMLP-induced superoxide generation by the increment of translocation to membrane of p47(phox) and p67(phox). L-cystathionine and N-acetyl-L-cysteine suppressed fMLP- and PMA-induced superoxide generation by the inhibition of translocation to membrane of p47(phox) and p67(phox). N-acetyl-L-cysteine also had scavenging activity against DPPH radicals and superoxide anion.

L13 ANSWER 5 OF 32 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

AB Methods: The effects of three sapogenins (sarsasapogenin, tigogenin and hecogenin) on the stimulus-induced superoxide generation and protein tyrosyl phosphorylation in human neutrophils were investigated. Results: When the cells were preincubated with sapogrenin, three sapogenins dose-dependently suppressed the superoxide generations induced by N-formyl-methionyl-leucyl-phenylalanine (fMLP) and phorbol 12-myristate 13-acetate (PMA), respectively. In both cases, their effects were in the order: sarsasapogenin > tigogenin > hecogenin. While sarsasapogenin suppressed the superoxide generation induced by arachidonic acid (AA) as well, the superoxide generation was scarcely suppressed by tigogenin and significantly enhanced by hecogenin. In parallel to their effects on the superoxide generation, the three sapogenins dose-dependently suppressed the fMLP-induced and PMA-induced tyrosyl phosphorylations of 45 kDa protein in neutrophils, respectively. Conclusions: Of the sapogenins tested, sarsasapogenin may have the most clinical use as it suppresses superoxide generation. (C) 2001 Elsevier Science B.V. All rights reserved.

L13 ANSWER 11 OF 32 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

AB Human peripheral blood polymorphonuclear leukocytes were preincubated with lanthionine, S-(2-aminoethyl)-L-cysteine, and some of their derivatives found in normal human urine and bovine brain, Among these compounds, lanthionine ketimine and to a lesser extent S-(2-aminoethyl)-L-cysteine ketimine enhanced the N-formyl-methionyl-leucyl-phenylalanine-induced superoxide generation. These ketimines induced tyrosyl phosphorylation of 45 kDa protein of cells. The tyrosyl phosphorylation was markedly increased with time, and the phosphorylation process was dependent on the concentration of both ketimines. However, lanthionine, 1,4-thiomorpholine-3,5-dicarboxylic acid, S-(2-aminoethyl)-L-cysteine and 1,4-thiomorpholine-3-carboxylic acid were without effect both on superoxide generation and on tyrosyl phosphorylation of 45 kDa protein, Lanthionine ketimine and S-(2-aminoethyl)-L-cysteine ketimine also enhanced superoxide generation

induced by opsonized zymosan but not the one induced by arachidonic acid and phorbol 12-myristate 13-acetate. Ketimine-primed superoxide generation and tyrosyl phosphorylation of 45 kDa protein were inhibited by genistein, an inhibitor of protein tyrosine kinase, but not by 1-(5-isoquinoline sulfonyl)-2-methylpiperazine, an inhibitor of protein kinase C.

L13 ANSWER 14 OF 32 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

AB Lanthionine ketimine (LK) binding sites were solubilized from bovine brain membranes using 3-[(3-cholamidopropyl)dimethylammonio]-1 (CHAPS) and Triton X-100. 10 mM CHAPS in 0.5 M potassium phosphate, pH 7.0, containing 20% glycerol was selected to solubilize LK binding entities. Some properties of CHAPS-solubilized LK binding sites have been studied. The CHAPS-solubilized preparation appeared to contain a homogenous population of binding sites for [(35)]LK. Binding properties indicated that the solubilized binding sites were similar to the membrane-bound sites. [S-35]LK specific binding was inhibited by other structurally related ketimines obtaining a similar rank order of inhibition for the soluble and the membrane-bound preparations. The successful solubilization of [S-35]LK binding sites is a useful starting point for the purification of this binding protein.

L13 ANSWER 17 OF 32 MEDLINE on STN DUPLICATE 10

AB Novel cystathionine mono-oxo acids, S-(3-oxo-3-carboxy-n-propyl) cysteine and S-(2-oxo-2-carboxyethyl) homocysteine, and cyclic amino acid, **cystathionine ketimine**, have been detected in the urine of a patient with cystathioninuria using liquid chromatography-mass spectrometry with an atmospheric pressure ionization interface system and an amino acid analyzer. To determine these cystathionine mono-oxo acids and **cystathionine ketimine** we took advantage of the selective absorbance at 380 nm of the phenylisothiocyanate-ketimine interaction product. The total concentrations of these compounds found in the urine samples of a cystathioninuric patient and six healthy subjects were respectively 3611.3 and 148.4 micrograms +/- 35.9/g of creatinine. The cystathioninuric patient excreted 20 times more cystathionine mono-oxo acids in the urine than healthy subjects.

L13 ANSWER 20 OF 32 MEDLINE on STN DUPLICATE 12

AB Aminoethylcysteine, lanthionine, cystathionine and cystine are mono-deaminated either by L-amino-acid oxidase or by a transaminase exhibiting the properties described for glutamine transaminase. The deaminated products cyclize producing the respective ketimines. Authentic samples of each ketimine were prepared by reacting the appropriate aminothiols with bromopyruvate, except cystine ketimine which required the interaction of thiopyruvate with cystine sulfoxide. Reduction of the first three mentioned ketimines with NaBH<sub>4</sub> yields the respective derivatives with the saturated rings of thiomorpholine and hexahydrothiazepine. The same reduction is carried out enzymically by a reductase extracted from mammalian tissues. Properties of the members of this family of compounds are described. Gas chromatography followed by mass spectrometry permits the identification of most of these products. HPLC is very useful for the determination of the ketimines by taking advantage of specific absorbance at 380 nm obtained by prior derivatization with phenylisothiocyanate. Adaptation of these and other analytical procedures to biological samples disclosed the presence of most of these compounds in bovine brain and in human urine. By using [35S]lanthionine ketimine as a representative member of the ketimine group, the specific, high-affinity, saturable and reversible binding to bovine brain membranes has been demonstrated. The binding is removed by aminoethylcysteine ketimine and by **cystathionine ketimine** indicating the occurrence in bovine brain of a common binding site for ketimines. The reduced ketimines are totally ineffective in competing with [35S]lanthionine ketimine. Altogether these findings

are highly indicative for the existence in mammals of a novel class of endogenous sulfur-containing cyclic products provided with a possible neurochemical function to be investigated further.

L13 ANSWER 25 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

AB A NAD(P)H-dependent reductase (ketimine reductase) able to reduce a new class of cyclic unsatd. compds. named ketimines was detected and purified 2500-fold from pig kidney. Some mol. and kinetic properties of this enzyme were determined. The enzymic reduction proceeds with a classical ping-pong mechanism, and some results suggest that the true substrate has the ketiminic structure and is in equilibrium with the enaminic and keto-open forms. As previously described, ketimines arise from the deamination of a number of S-containing amino acids, i.e. L-cystathionine, L-lanthionine, and S-aminoethyl-L-cysteine, catalyzed by a widespread mammalian transaminase. The enzymic reduction products of ketimines were identified as cyclothionine, 1,4-thiomorpholine 3,5-dicarboxylic acid, and 1,4-thiomorpholine 3-carboxylic acid. Some of these compds. were detected in mammals thus suggesting a possible role of this enzyme in their biosynthesis.

L13 ANSWER 30 OF 32 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

L13 ANSWER 32 OF 32 MEDLINE on STN

DUPLICATE 21

=> s cyclothionine or 105990-93-0

FILE 'MEDLINE'

8 CYCLOTHIONINE

0 105990-93-0

L14 8 CYCLOTHIONINE OR 105990-93-0

FILE 'SCISEARCH'

5 CYCLOTHIONINE

0 105990-93-0

L15 5 CYCLOTHIONINE OR 105990-93-0

FILE 'LIFESCI'

2 CYCLOTHIONINE

0 105990-93-0

L16 2 CYCLOTHIONINE OR 105990-93-0

FILE 'BIOTECHDS'

0 CYCLOTHIONINE

0 105990-93-0

L17 0 CYCLOTHIONINE OR 105990-93-0

FILE 'BIOSIS'

11 CYCLOTHIONINE

4 105990-93-0

L18 11 CYCLOTHIONINE OR 105990-93-0

FILE 'EMBASE'

9 CYCLOTHIONINE

0 105990-93-0

L19 9 CYCLOTHIONINE OR 105990-93-0

FILE 'HCAPLUS'

13 CYCLOTHIONINE

6 105990-93-0

L20 14 CYCLOTHIONINE OR 105990-93-0

FILE 'NTIS'

0 CYCLOTHIONINE

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0 CYCLOTHIONINE OR 105990-93-0

FILE 'ESBIOBASE'

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0 105990  
29039 93  
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L23 7 CYCLOTHIONINE OR 105990-93-0

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0 105990-93-0  
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TOTAL FOR ALL FILES

L25 59 CYCLOTHIONINE OR 105990-93-0

=> dup rem l25

PROCESSING COMPLETED FOR L25

L26 16 DUP REM L25 (43 DUPLICATES REMOVED)

=> d tot

L26 ANSWER 1 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Antagonists of D-amino acid oxidase and D-aspartate oxidase for treatment  
of central nervous sytem disorders  
SO U.S. Pat. Appl. Publ., 138 pp., Cont.-in-part of U.S. Ser. No. 51,681.  
CODEN: USXXCO  
IN Cohen, Daniel; Chumakov, Llya  
AN 2003:696521 HCAPLUS  
DN 139:224389

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003166554	A1	20030904	US 2002-211160	20020801
	US 2003185754	A1	20031002	US 2002-51681	20020116

L26 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Treatment of CNS disorders using D-amino acid oxidase and D-aspartate  
oxidase antagonists  
SO PCT Int. Appl., 194 pp.  
CODEN: PIXXD2  
IN Cohen, Daniel; Chumakov, Ilya  
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DN 137:195529

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002066672	A2	20020829	WO 2002-IB1262	20020115
	WO 2002066672	A3	20040226		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,



PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,  
 GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA,  
 GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 CA 2433866 AA 20020829 CA 2002-2433866 20020115  
 EP 1412515 A2 20040428 EP 2002-717019 20020115  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
 JP 2004537275 T2 20041216 JP 2002-566376 20020115

- L26 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN  
 TI Cystathionine metabolism in patients with cystathioninuria and effect of priming of cystathionine metabolites on superoxide generation in human neutrophils  
 SO Recent Research Developments in Biophysics & Biochemistry (2001), 1, 189-199  
 CODEN: RRDBDN  
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 AN 2002:623127 HCAPLUS  
 DN 138:13150
- L26 ANSWER 4 OF 16 MEDLINE on STN DUPLICATE 1  
 TI Novel priming compounds of cystathionine metabolites on superoxide generation in human neutrophils.  
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 Journal code: 0372516. ISSN: 0006-291X.  
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- L26 ANSWER 7 OF 16 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED. on STN  
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- L26 ANSWER 8 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN  
 TI Characterization of [35S]lenthionine ketimine specific binding to bovine brain membranes  
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CODEN: BBRCA9; ISSN: 0006-291X

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AN 1993:664740 HCAPLUS  
DN 119:264740

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L26 ANSWER 10 OF 16 MEDLINE on STN DUPLICATE 5  
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AN 89051041 MEDLINE

L26 ANSWER 11 OF 16 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN DUPLICATE 6  
TI PROPERTIES OF THE PHENYLTHIOHYDANTOIN DERIVATIVES OF SOME  
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3, pp. 199-204.  
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L26 ANSWER 12 OF 16 MEDLINE on STN DUPLICATE 7  
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L26 ANSWER 13 OF 16 LIFESCI COPYRIGHT 2005 CSA on STN DUPLICATE 8  
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L26 ANSWER 14 OF 16 MEDLINE on STN DUPLICATE 9  
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L26 ANSWER 15 OF 16 MEDLINE on STN DUPLICATE 10  
TI Gas-chromatographic mass-spectrometric detection of 1,4-  
hexahydrothiazepine-3,5-dicarboxylic acid (**cyclothionine**) in  
bovine brain.  
SO Journal of biological chemistry, (1985 Dec 15) 260 (29) 15577-9.  
Journal code: 2985121R. ISSN: 0021-9258.  
AU Cavallini D; Pecci L; Matarese R M; Ricci G; Achilli M  
AN 86059433 MEDLINE

L26 ANSWER 16 OF 16 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
TI GAS-CHROMATOGRAPHIC MASS-SPECTROMETRIC DETECTION OF 1,4-

HEXAHYDROTHIAZEPINE-3,5-DICARBOXYLIC ACID (**CYCLOTHIONINE**) IN  
BOVINE BRAIN

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1985) Vol. 260, No. 29, pp. 5577-5579.  
ISSN: 0021-9258.  
AU CAVALLINI D (Reprint); PECCI L; MATARESE R M; RICCI G; ACHILLI M  
AN 1985:685624 SCISEARCH

=> d ab 3,5-7,9,10,13

L26 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN.

AB We have identified cystathionine metabolites, S-(3-hydroxy-3-carboxy-n-propyl)cysteine (HCPC), S-(2-carboxyethyl)cysteine( $\beta$ -CEC), S-(carboxymethyl)homocysteine (CMHC), S-(2-hydroxy-2-carboxyethyl)homocysteine (HCEHC), N-monoacetylcystathionine, cystathionine sulfoxide, cystathionine ketimine (CK) and perhydro-1,4-thiazepine-3,5-dicarboxylic acid (PHTZDC) in the urine of cystathioninuric patient and the urine and several tissues of D,L-propargylglycine-treated rats. To clarify the physiolo. function of cystathionine and cystathionine metabolites found in the urine of patients with cystathioninuria. Human peripheral blood polymorphonuclear leukocytes were preincubated with cystathionine and cystathionine metabolites. Among the cystathionine metabolites, cystathionine ketimine and cystathionine sulfoxide significantly enhanced the N-formylmethionylleucyl-phenylalanine (fMLP)- induced superoxide generation, but cystathionine, NAC-cystathionine and **cyclothionine** did not enhance the superoxide generation. The effects of D-cystathionine ketimine (D-CK) and L-cystathionine ketimine (L-CK) on the stimulus-induced superoxide generation were compared. D-CK enhanced the superoxide generation induced by arachidonic acid (AA), phorbol 12-myristate 13-acetate (PMA) and fMLP showing a dependence on D-CK concentration

L-CK largely enhanced the fMLP-induced superoxide generation, whereas it showed no effect on these induced by AA and PMA. L-Cystathionine sulfoxides were separated into 2 diastereoisomers, CS-I and CS-II. CS-I enhanced the superoxide generation induced by AA and PMA, but not that induced by fMLP and opsonized zymosan (OZ). In contrast, CS-II enhanced the superoxide generation induced by fMLP and OZ, but not that induced by AA and PMA.

L26 ANSWER 5 OF 16 MEDLINE on STN

DUPLICATE 2

AB The effect of cystathionine and cystathionine metabolites found in the urine of patients with cystathioninuria on the phosphorylation of tyrosine residues was studied with human peripheral blood polymorphonuclear leukocytes. Among the cystathionine metabolites, cystathionine ketimine markedly increased phosphorylation of a 45 kDa protein with time and the phosphorylation depended on the concentration of cystathionine ketimine, while cystathionine and the reduced form of cystathionine ketimine (**cyclothionine**) did not increase the phosphorylation of the 45 kDa protein. The phosphorylation of the 45 kDa protein induced by cystathionine ketimine was inhibited by genistein and herbimycin A, inhibitors of tyrosine kinase, but was not inhibited by 1-(5-isoquinolinesulfonyl)-2-methylpiperazine and staurosporine, inhibitors of protein kinase C.

L26 ANSWER 6 OF 16 MEDLINE on STN

DUPLICATE 3

AB Human peripheral blood polymorphonuclear leukocytes were perincubated with cystathionine and cystathionine metabolites found in the urine of the patients with cystathioninuria. Among the cystathionine metabolites, cystathionine ketimine significantly enhanced the N-formyl-methionyl-leucyl-phenylalanine-induced superoxide generation, but cystathionine and **cyclothionine** did not enhance the superoxide generation. Cystathionine ketimine also enhanced superoxide generation induced by opsonized zymosan but not those induced by arachidonic acid and phorbol

myristate acetate. Superoxide generation induced by cystathionine ketimine was inhibited by genistein, an inhibitor of tyrosine kinase, and was enhanced by 1-(5-isoquinoline-sulfonyl)-2-methyl-piperazine, an inhibitor of protein kinase C.

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on STN

L26 ANSWER 9 OF 16 MEDLINE on STN DUPLICATE 4

AB An NAD(P)H-dependent reductase able to reduce a new class of cyclic unsaturated compounds named ketimines has been detected and purified 2500-fold from pig kidney. Some molecular and kinetic properties of this enzyme have been determined. The enzymatic reduction proceeds with a classical ping-pong mechanism and some results suggest that the true substrate has the ketiminic structure and is in equilibrium with the enaminic and keto-open forms. As previously described, ketimines arise from the deamination of a number of sulfur-containing amino acids, i.e. L-cystathionine, L-lanthionine and S-aminoethyl-L-cysteine, catalyzed by a widespread mammalian transaminase. The enzymatic reduction products of ketimines have been identified as **cyclothionine**, 1,4-thiomorpholine 3,5-dicarboxylic acid and 1,4-thiomorpholine 3-carboxylic acid. Some of these compounds have been detected in mammals, thus suggesting a possible role of this enzyme in their biosynthesis.

L26 ANSWER 10 OF 16 MEDLINE on STN DUPLICATE 5

AB We report the purification from bovine brain of an NAD(P)H-dependent reductase which actively reduces a new class of cyclic unsaturated compounds, named ketimines. Ketimines arise from the transamination of some sulphur-containing amino acids, such as L-cystathionine, S-aminoethyl-L-cysteine and L-lanthionine. The enzyme also reduces delta 1-piperidine 2-carboxylate, the carbon analog of aminoethylcysteine ketimine. Some kinetic and molecular properties of this enzyme have been determined. Subcellular localization and regional brain distribution have also been studied. The ketimine reductase activity was found to be associated with the soluble fraction, and was located prevalently in the cerebellum and cerebral cortices. **Cyclothionine** and 1,4-thiomorpholine-3,5-dicarboxylic acid, the enzymatic reduction products of cystathionine ketimine and lanthionine ketimine, respectively, have been detected in bovine brain, thus suggesting a role of this enzyme in their biosynthesis.

L26 ANSWER 13 OF 16 LIFESCI COPYRIGHT 2005 CSA on STN DUPLICATE 8

AB Glutamine transaminase has been purified 113 fold from bovine brain. The product is free of aspartate amino transferase and other common transaminases. The enzyme shows a wide specificity similar to that reported from the same transaminase purified from bovine kidney and liver as regards both the amino donor and the amino acceptor. Of interest is the transamination and cyclization of L-cystathionine, L-lanthionine, L-cystine and S-aminoethylcysteine. The latter result indicates that the deamination and the cyclization of the sulfur containing diamino acids described for bovine liver and kidney enzyme is feasible also in the brain and suggests the possible endogenous origin of **cyclothionine** and thiomorpholine dicarboxylate recently detected in bovine brain.

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

101.44	101.65
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

-1.46	-1.46
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STN INTERNATIONAL LOGOFF AT 08:33:28 ON 23 AUG 2005